

04/28/2011 12:47 FTP

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

8769-50

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

66175349

002/008

A 602897
005-18-11

1. Manufactured and certified by Air Cooled Exchangers, LLC 1201 South 9th Broken Arrow, Oklahoma 74012
(Name and address of manufacturer)

2. Manufactured for HUSKY OIL OPERATIONS LTD
(Name and address of purchaser)

3. Location of installation MINEHEAD COMP. STN Unknown LSA: 03-06-049-18 WSM
(Name and address)

4. Type Horiz 1103501-1 T4527 231 11035-H1 8655 2011
(Horiz or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1

6. Tube & Plug: SA-516-GR-70 0.750 0.063 4.375 IN. 68 IN.
(Mat'l. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length overall) (ft. & in.)

7. Seams: Single Bevel N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.
(Long. RT/Spot or Full) (H.T. Temp. (°F)) (Time (hr)) (Girth (Welded, Dbl. Sngl. Lap, Butt)) (RT/Spot or Full) (Eff. (%)) (No. of Courses)

8. Heads: (a) Mat'l. SA-516-GR-70 (b) Mat'l. SA-516-GR-70
(Spec. No., Grade) (Spec. No., Grade)

	Location Top, Bottom, End	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure
(a)	Top/Bottom	0.5 IN.	0.0625 IN.	N.A.	N.A.	N.A.	N.A.	N.A.	4 IN.	N.A.
(b)	Ends	0.5 IN.	0.0625 IN.	N.A.	N.A.	N.A.	N.A.	N.A.	4 IN.	N.A.

If removable, bolts used (describe other fastenings):

9. MAWP 400 N.A. at max. temp. 500 N.A.
(Internal) (External)

Min. design metal temp. 30 °F at 400 psi at max temp psi Hydro test pressure 520 psi

Proof Test

10. Nozzles, inspection and safety valve openings: Safety Relief Valves to be provided elsewhere by others

Purpose (Inlet, Outlet, Drain)	No	Diam. Size or	Type	Mat'l.	Nom. Thk	Reinforce Mat'l.	How Attached	Location
In/Outlet	2	2 in.	Pipe	SA-106-GR B	0.343 in.	Mat&Weld	UW16.1(a)	
	2	2 in.	RFWN	SA-105	0.00RF	Mat&Weld	Welded	

11. Supports: Skirt NO Lugs 4 Legs 0 Other N.A. Attached Tubesheet/Welded
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned inspectors have been furnished for the following items c) the report

Constructed in conformance w/ Appendix 28, IMPACT EXEMPT PER UG-20(F)(1)(b) Vessel volume 3 CuFt
(Name of part, item number, Mfr's name and identifying stamp)

Tubes: (133) SA214(WLD) X 0.625" OD X 0.06" MW X 7ft long Straight Type

100% RT NOZZLE (266) SA-105 SHOULDER

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 7616 expires 4/30/2011

Date 4-4-11 Co. name Air Cooled Exchangers, LLC Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Air Cooled Exchangers, LLC at 1201 S. 9th St Broken Arrow, Oklahoma 74012

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Oklahoma and employed by OneBeacon America Insurance Co. Lynn, Mass

have inspected the component described in this Manufacturer's Data Report on 4-5-11 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1 By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Date 4-5-11 Signed [Signature] Commission 118,843.11 OK-266
(Authorized Inspector) (National Board (incl. endorsements), State, and No.)

SERVICE: E-404

